

t14_xboole_1 (TML-
SNqJzjHR9BPdVCgNK3HmZWNrw3CYe2B1)

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Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarSKI X0 X1) \wedge (r1_tarSKI X2 X1)) \Rightarrow (r1_tarSKI (k2_xboole_0 X0 X2) X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarSKI X0 (k2_xboole_0 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarSKI X0 X1) \wedge (r1_tarSKI X1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. ((r1_tarSKI X0 X1) \wedge ((r1_tarSKI X2 X1) \wedge (\forall X3. ((r1_tarSKI X0 X3) \wedge (r1_tarSKI X2 X3)) \Rightarrow (r1_tarSKI X1 X3)))) \Rightarrow (X1 = k2_xboole_0 X0 X2)$$